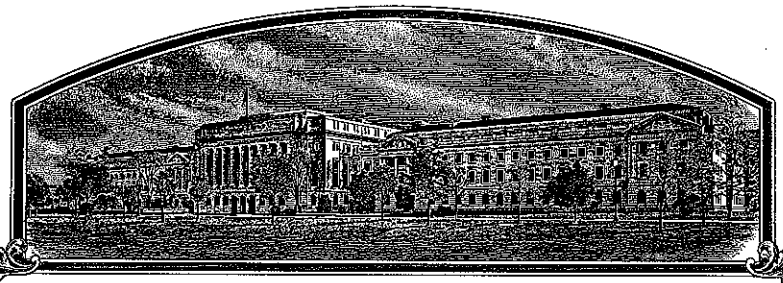

No. 200300077

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Turf Merchants, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, KENTUCKY

'Brooklawn'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of July, in the year two thousand and eight.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER
~~Steve Tubbs~~
~~c/o~~ Turf Merchants, Inc.
(BT: 4/18/2008)

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME
A97-944

3. VARIETY NAME
Brooklawn

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
33390 Tangent Loop Road
Tangent, OR
97389

5. TELEPHONE *(Include area code)*
541 - 926 - 8649

6. FAX *(Include area code)*
541 - 926 - 4435

FOR OFFICIAL USE ONLY

PVPO NUMBER
200300077

FILING DATE
January 14, 2003

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
Corporation

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
Oregon

9. DATE OF INCORPORATION
03 - 05 - 1995

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers.)*
Steve Tubbs
c/o Turf Merchants, Inc.
33390 Tangent Loop Road
Tangent, OR
97389

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 2705.-
DATE 1/14/03

CERTIFICATION FEE:
$ 768.00
DATE 5/28/2008

11. TELEPHONE *(Include area code)*
541 - 926 - 8649

12. FAX *(Include area code)*
541 - 926 - 4435

13. E-MAIL

14. CROP KIND *(Common Name)*
Kentucky bluegrass

15. GENUS AND SPECIES NAME OF CROP
Poa pratensis

16. FAMILY NAME *(Botanical)*
Poaceae

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☒ NO

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of Variety
d. ☒ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☒ Exhibit E. Statement of the Basis of the Owner's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
g. ☒ Filing and Examination Fee ($2,705), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes", answer items 20 and 21 below)* ☒ NO *(If "no", go to item 22)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO THE NUMBER OF CLASSES? ☐ YES ☐ NO
IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☐ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES?
☐ YES ☒ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☒ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

24. The owners declare that a viable sample of basic seed of the variety will be furnished with applicaiton and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER	SIGNATURE OF OWNER
NAME *(Please print or type)* Nancy Aerni	NAME *(Please print or type)*
CAPACITY OR TITLE Vice-President	DATE 1/10/03
CAPACITY OR TITLE	DATE

Exhibit A:

Origin and Breeding History
Brooklawn (A97-944) Kentucky Bluegrass

Origin and breeding history of Brooklawn (A97-944) Kentucky bluegrass (*Poa pratensis* L.) appears to have originated as a single, apomictic plant selected from cross between 'Shamrock' Kentucky bluegrass (1) and 'America' Kentucky bluegrass (2).

A plant of Shamrock was pollinated by America Kentucky bluegrass, during the late winter of 1994 - 1995 in a greenhouse located on the Cook College campus of Rutgers University. Environmental conditions prior to and during pollination were modified to increase sexual reproduction of facultatively apomictic Kentucky bluegrasses (3,4,5). Seed from the Shamrock female parent was harvested in the spring of 1995. Seedlings were grown in the greenhouse in the winter of 1995-1996 and hybrids were phenotypically identified. Selected hybrid plants were established in a spaced-plant nursery at the Rutgers University Plant Science Reseach and Extension Farm at Adelphia, New Jersey, during the spring of 1996. The following summer, an attractive F_1 hybrid plant was harvested on June 23 and yielded 141 grams. This was a late maturing, high yielding plant compared to other Kentucky bluegrasses harvested from that nursery. In the fall of 1997, it was planted in a turf plot at Adelphia, New Jersey with the designation A97-944.

The selection criteria for Brooklawn consisted of phenotypically identifying the off-types; selecting the off-types with dark genetic color, crown density, later maturity than the mother, and above average yield. Brooklawn has excellent floret fertility and a seed head number rating of 7 based on a 1 - 9 scale (9=most). Brooklawn has above average turf quality, good leaf spot resistance, average winter appearance, average spring green-up, and average seedling vigor.

References:

1. Rose-Fricker, C.A., M.L. Fraser, W.A. Meyer, and C.R. Skogley. 1999. Registration of 'Unique' Kentucky bluegrass. Crop Sci. 39:290.

2. Bashaw, E.C., and C.R. Funk. 1987. Apomictic grasses. P. 40-82 *In* F. Lemaire (ed.) Proc. Int. Turfgrass Res. Conf., 5th Avignon, France. INRA Publ., Versailles.

3. Hintzen, J.J., and A.J.P. van Wijk. 1985. Ecotype breeding and hybridization in Kentucky bluegrass (*Poa pratensis* L.). P. 213-219. *In* F. Lemaire (ed.) Proc. Int. Turfgrass Res. Conf., 5th Avignon, France. INRA Publ., Versailles.

4. Pepin, G.W., and C.R. Funk. 1971. Intraspecific hybridization as a method of breeding Kentucky bluegrass for turf. Crop Sci. 11:445 - 448.

II. Breeder Seed Maintenance:

Breeder seed is maintained by Rutgers University. Seed propagation is limited to three generations, one each of foundation, registered, and certified.

III. Stability and Uniformity:

The 85% apomixis level of Brooklawn has shown to be stable and uniform over the six years of turf trials and seed multiplication increases. Stability and uniformity has been observed in breeder and foundation seed multiplications and turf plots. The 15% off-type or variant plants are usually weaker in vigor but can be taller in mature plant height. Generations are limited for the multiplication of Brooklawn.

Exhibit B:

Novelty Statement for Brooklawn (A97-944) Kentucky Bluegrass

The following summary outlines the distinctive characteristics of Brooklawn. The novelty of Brooklawn is based on the unique combination of these characteristics. Brooklawn is most similar to Shamrock, but may be differentiated by using the following criteria;

1) Brooklawn has an earlier anthesis date compared to Shamrock (tables 1A, 1B).

2) Brooklawn has a smaller seed weight than Shamrock (tables 3A, 3B).

3) Brooklawn exhibits a higher frequency of hairs on the leaf blade margin and keel compared to Shamrock (tables 4A, 4B).

4) Leaf sheath pubescence of the ligule and margin are expressed more frequent on Brooklawn compared to Shamrock (tables 4A, 4B).

5) The leaf blade color of Brooklawn is medium-dark green compared to Shamrock which is medium green (tables 5A, 5B).

6) Brooklawn is more apomictic than Shamrock (tables 5A, 5B).

7) Brooklawn express more plants with a leaf sheath keel compared to Shamrock (tables 6A, 6B).

US. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT C
(BLUEGRASS)

OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS
(*Poa* spp.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Turf Merchants, Inc.	A97-944	Brooklawn
(BT:4/18/08)		

ADDRESS (Street and No., or R.F.D. No., City, State and ZIP Code)	FOR OFFICIAL USE ONLY
33390 Tangent Loop Road Tangent, OR 97389	PVPO NUMBER #200300077

Select the number which characterizes the variety in the features described below. For measured characteristics use leading zeros as necessary in order to fill all blanks (e.g. 089). Those characteristics marked with a star * are preferred to be recorded. Any others should be recorded to help establish novelty or uniqueness. Characteristics described, including numberical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate the system used: _____. Describe location of test area, conditions, and number of plants used: See item number 15, exhibit C.

1. SPECIES:

|2| 1 = *Poa compressa* 2 = *P. pratensis* 3 = *P. trivialis* 4 = Others (Please Specify): _____

|_|_|_| Chromosome Number

2. ADAPTATION: (0 = Not Tested, 1 = Not Adapted, 2 = Adapted, 3 = Well Adapted)

|3| Northeast |0| Transitional Zone |0| Southeast |3| North Central

|3| Pacific N.W. |0| Intermountain |0| Southwest (CA, AZ) |0| Other (Please Specify): _____

3. MATURITY (At first anthesis): Give test area: _____

|5| 1 = Very Early 2 = Early (Delta, Mystic) 3 = Medium Early (Fylking, Nugget)
4 = Medium late (Newport, Adelphi, Aquila) 5 = Late (Merion, Baron, Enmundi)
6 = Very Late (Pacific)

42.33 days after April 1, Date of First Anthesis

|_|_| Number of days earlier than ☆|_| 1 = Nugget 2 = Fylking 3 = Delta

Maturity same as ☆|_| 4 = Merion 5 = Newport 6 = Baron

|4.34| Number of days later than ☆|6| 7 = Mystic 8 = Sabre 9 = Reubens

4. PLANT HEIGHT (At maturity - Average of longest shoot of 10 plants from soil surface to top of panicle): *Test Area* Albany, OR

☆|3| 1 = Short 2 = Medium short (Baron, Fylking, Mystic)
3 = Medium tall (Merion, Adelphi) 4 = Tall (Delta) 5 = Very tall

#200300077

☆|60.57| cm Height

|_|_|	cm Shorter than	☆|_|	1 = Nugget	2 = Fylking	3 = Delta
	Height same as	☆|_|	4 = Merion	5 = Newport	6 = Baron
|4.87|	cm Taller than	☆|6|	7 = Mystic	8 = Sabre	9 = Reubens

5. GROWTH HABIT:

☆|3| Habit: 1 = Prostrate (Nugget) 2 = Semiprostrate (Merion) 3 = Erect (Delta)

|16.27| cm Amount of spread by rhizomes in 1 year (give test area Albany, Oregon)

6. LEAF BLADE:

☆|3| Green color: 1 = Light green (Mystic) 2 = Medium green (Fylking, Bonnieblue)
3 = Moderately dk. green (Merion, Adelphi) 4 = Very dk. green (Nugget, Glade, Enmundi)

☆|1| Bluegreen color: 1 = Not bluegreen (Mystic, Touchdown, Parade) 2 = Moderately bluegreen (Merion, A-34)
3 = Bluegreen (Nugget, Enmundi, Adelphi) 4 = Stongly bluegreen (Majestic)

|2| Winter color: 1 = Light green 2 = Dark green 3 = Light purple
4 = Dark purple 5 = Not purple 6 = Not green or purple

☆|1| Hairs upper side: 1 = Absent (Nugget) 2 = Sparse (Merion) 3 = Dense (Park)

|1| Hairs lower side: 1 = Absent (Fylking, Merion 2 = Sparse 3 = Dense (Nugget)

|2| Luster upper side: 1 = Shiny (Eclipse, Enmundi) 2 = Dull (Aquila, Parade)

|1| Luster lower side: 1 = Shiny (Mystic, Enmundi) 2 = Dull (Barbie, Eclipse)

☆|2| Margin hairs (Fringe on Margin or Base): 1 = Absent (Delta) 2 = Present (Fylking, Merion)

☆|4| Width: 1 = Very fine (Mystic) 2 = Fine (Nugget) 3 = Medium (Merion, Fylking)
4 = Broad (Adelphi, Baron) 5 = Very broad (Monopoly)

|5.37| mm Width (flag leaf)

|_|_|	mm Narrower than	☆|_|	1 = Nugget	2 = Fylking	3 = Delta
	Width same as	☆|6|	4 = Merion	5 = Newport	6 = Baron
|_|_|	mm Wider than	☆|_|	7 = Mystic	8 = Sabre	9 = Reubens

|188.30| mm Length (flag leaf)

|_|_|	mm Shorter than	☆|_|	1 = Nugget	2 = Fylking	3 = Delta
	Length same as	☆|6|	4 = Merion	5 = Newport	6 = Baron
|___|	mm Longer than	☆|_|	7 = Mystic	8 = Sabre	9 = Reubens

|1| Position of flag leaf (angle to stem): 1 = Appressed 2 = Open angle, yet stiff 3 = Nodding

#200300077

7. LEAF SHEATH:

|135.30| mm sheath length

☆|1| Seedling Color (base of sheath): 1 = Green (Nugget, Merion) 2 = Red (Delta)

☆|1| Hairs on Margin: 1 = Absent (Fylking) 2 = Present (Nugget)

☆|1| Margin Roughness (to touch): 1 = Smooth (Delta) 2 = Rough (Sabre)

|1| Hairs on Surface: 1 = Absent ( ) 2 = Present (Nugget)

|1| Surface Roughness (to touch): 1 = Smooth (Fylking) 2 = Rough (Ram I)

|1| Hairs on both sides just beneath leaf blade (under collar): 1 = Absent (Merion) 2 = Present (Nugget)

☆|2| Hairs on ligule: 1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget)

|1| Glaucosity: 1 = Absent (Mystic, Enmundi) 2 = Present (Birka)

|2| Keel: 1 = Absent (Ram I) 2 = Present (Adelphi)

---

8. PANICLE (Mature Plant):

|418.00| mm Length (Lowest branch whorl to top, for 10 plants) Test Area: Albany, Oregon

| | | | mm Shorter than ☆| | 1 = Nugget 2 = Fylking 3 = Delta

Panicle same as ☆|6| 4 = Merion 5 = Newport 6 = Baron

| | mm Longer than ☆| | 7 = Mystic 8 = Sabre 9 = Reubens

☆|2|1| Color (at 50% flowering): 1 = Not red (Fylking) 2 = Red (Nugget)

|1| Shape of Rachis (opposite lower side branches): 1 = No bend (Nugget) 2 = Bend (Merion)

☆|1| Collar: 1 = Opened (Nugget) 2 = Closed (Merion)

☆|3| Branches Attitude (Lowest whorl): 1 = Drooping (America, Prato) 2 = Horizontal (Merion) 3 = Ascending (Tundra)

|4| Number of main branches in lowest whorl:

☆|1| Panicle habit: 1 = Nodding (Newport) 2 = Upright (Nugget)

☆|1| Panicle type: 1 = Open 2 = Intermediate 3 = Compact

|1| Anther color (anthesis): 1 = Purple 2 = Yellow 3 = Brown

---

9. LEMMA

☆|2| Keel 1 = Glabrous 2 = Slightly pubescent 3 = Pubescent

☆|1| Marginal Nerves 1 = Distinct 2 = Obscure

|2| Intermediate Nerves 1 = Distinct 2 = Obscure

|2| Basal Webbing: 1 = Absent 2 = Scant (Baron) 3 = Copious (Merion)

---

10. SEED: (Floret-not dehulled)

☆|2|1| Apomixis Percentage: 1 = more than 95 2 = 85 to 95 3 = less than 85

(BT: 4/8/'08)

SEED (*Continued*)

#200300077

|_| Phenol Reaction: 1 = none-lemma removed (Merion) 2 = Beige (Cougar) 3 = Brown (Windsor)
4 = Black (Mystic - 2hrs) 5 = Black (-24hrs)

|7.50| mm Width (average of 10) |35.60| mm Length

|3.720| Milligrams per 10,000 seed

|____| Milligrams less than ☆|_| 1 = Nugget 2 = Fylking 3 = Delta

Weight same as ☆|_| 4 = Merion 5 = Newport 6 = Baron

|60| Milligrams more than ☆|6| 7 = Mystic 8 = Sabre 9 = Reubens

|2| Weight Class (g per 10,000 seed): 1 = Light (<3g Sydsport, Merion)
2 = Medium (3g - 4g Adelphi, Parade)
3 = Heavy (>4g Fylking, Nugget)

11. ENVIRONMENTAL RESISTANCE:
(0 = Not tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

|0| Cool Temperature (Winter color) |0| Cold (injury) |0| Heat |0| Drought
|0| Shade |0| Low Fertility |0| Acid Soil (<pH 5.5) |0| Alkalinity (PH > 7.5)
|0| Salinity |0| Soil Compaction |0| Poor Drainage |0| Air Pollution

|0| Other (Please Specify): _____

12. DISEASE RESISTANCE:
(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

|0| Melting-Out *Drechslera poae (Helminthosporium vagans)*
|0| Helminthosporium Leaf Spot *Bipolaris sorokiniana*
|0| Brown Patch *Rhizoctonia solani*
|0| Powdery Mildew *Erysiphe graminis*
|0| Stripe Smut *Ustilago striiformis*
|0| Flag Smut *Urocystis agropyri*
|0| Pink Snow Mold *Fusarium nivale*
|0| Ergot *Claviceps purpurea*
|0| Fusarium Blight *Fusarium roseum, F. tricinctum*
|0| Typhula Blight *Typhula* spp.
|0| Dollar Spot *Sclerotinia homoeocarpa*
|0| Sclerotina *S. borealis*
|0| Stem Rust *Puccinia graminis*
|0| Stripe Rust *P. striiformis*
|0| Leaf Rust *P. poae-nemoralis*
|0| Orange Stripe Rust *P. poarum*
|0| Pythium Blight *Pythium* spp.
|0| Red Thread *corticium fujciforme*
|0| Other (Please Specify): _____
|0| Other (Please Specify): _____

13. INSECTS, NEMATODES, RESISTANCE:
(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

|0| Chinch Bug *Blissus* spp. (give species: _____)

|0| Sod Webworm *Crambus* spp. (give species: _____)

INSECTS, NEMATODES, RESISTANCE (*Continued*)

#200300077

|0| Bluegrass Billbug *Sphenophorus parvulus*

|0| White Grub: Japanese Beetle, Chafers (give species: _____)

|0| Greenbug Aphid *Schizaphis graminum*

|0| Other (Please Specify): _____

|0| Other (Please Specify): _____

14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R. , one of the following numbers: 1 = Application variety is less than comparison variety; 2 = Same as; 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Baron	1	Leaf Width	Baron	2
Height	Baron	3	Leaf Color Spring	Baron	3
Seed Size	Baron	2	Leaf Color Summer	Baron	2
Seed Weight	Baron	3	Leaf Color Winter	Baron	3
Cold Injury			Drought		
Heat			Disease**		
Shade					

***Specify each disease evaluated*

15. ADDITIONAL DESCRIPTION

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.

A morphological nursery designated 99PVPPP1 was established in September of 1999, in Albany, Oregon. Experimental design consisted of 22 entries; 3 replications per entry; 20 plants per replication; for a total of 60 plants per entry. Baron, America, and Unique were used as standards. Plants were established on 2.5 foot centers with a skip row between replications and between entries.

The nursery received 30 pounds of nitrogen per acre rate following establishment and 50 pounds of nitrogen per acre per year in 2000 and 2001. The fertilizer source was 15-15-15 and was applied as a split application with ½ applied in the spring and ½ in the fall. The nursery was sprayed twice each spring, 3 weeks between applications, with Tilt (2 oz/acre rate), to prevent stem rust. One pound of Karmex per acre rate was applied during late summer to prevent emergence of volunteer seedlings.

Data was analyzed using analysis of variance for a randomized complete block design. Means were calculated for each replication and then analyzed.

Exhibit D:

Additional Description

Brooklawn (A97-944) Kentucky Bluegrass

Brooklawn is an improved turf-type Kentucky bluegrass. Brooklawn is earlier maturing than Shamrock, Unique and Baron (tables 1A, 1B). The genetic color of Brooklawn is darker in comparison to previously released cultivars, such as Shamrock and Baron (5A, 5B). Brooklawn has a greater mature plant height compared to Unique and Baron (tables 1A, 1B). The height of the flag leaf is taller for Brooklawn than Baron (tables 1A, 1B). Brooklawn has a longer sheath length of the flag leaf than Unique (tables 1A, 1B). The leaf blade characteristics; length and sheath length are greater for Brooklawn compared to Unique (tables 1A, 1B). The length of the branches (long, medium, short) of the lower most whorl are all longer for Brooklawn compared to Unique and Baron (tables 2A, 2B). The distance between the two lower most whorls is greater for Brooklawn compared to Unique and Baron (tables 2A, 2B). The number of spikelets on the longest whorl and the number of spikelets per panicle are greater for Brooklawn compared to Unique and Baron (tables 2A, 2B). The length of the panicle from the lower most whorl to the apex is larger for Brooklawn than Unique (tables 2A, 2B, illus. 1). Brooklawn has a more erect growth habit compared to Baron (tables 3A, 3B). Brooklawn expressed fewer red panicles compared to Baron, but more than Unique (tables 3A, 3B). Brooklawn produces a higher frequency of plants with leaf blade margin and keel hairs compared to Unique (tables 4A, 4B). Brooklawn also produces a higher frequency of plants with leaf sheath ligule and margin hairs compared to Unique (tables 4A, 4B). Brooklawn expresses a lower frequency of panicles with six or more branches on the lower most whorl compared to Baron (table 7).

Table 1A 2001Morphological Data

Cultivar	Heading Date (days after April 1)	Anthesis Date (days after April 1)	Genetic Color 1-9 scale 9=best	Mature Plant Height (cm)	Plant Width (cm)	Panicle Length (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)	Flag Leaf Internode Length (cm)	Leaf Blade Length (cm)	Leaf Blade Width (mm)	Leaf Blade Height (cm)	Leaf Sheath Length (cm)
Brooklawn	17.00	42.33	5.00	60.57	16.27	41.80	18.83	5.37	30.63	13.53	14.07	19.57	6.57	13.80	10.93
A97-1439	25.00	48.67	5.80	58.73	14.60	45.93	22.57	6.10	27.50	13.33	12.03	23.93	7.23	11.87	10.23
A97-1449	29.00	51.33	6.20	66.33	16.27	47.53	22.73	6.70	32.60	14.03	13.70	24.67	7.63	15.33	10.67
A97-1275	31.67	52.33	4.63	57.57	17.13	45.17	24.53	6.13	26.77	14.33	10.57	23.67	7.30	12.33	10.40
Shamrock	20.33	45.67	4.70	70.53	16.27	46.50	21.97	5.70	37.53	14.70	17.90	22.77	6.43	17.13	11.77
Unique	32.33	54.33	5.50	51.20	14.27	36.53	17.97	4.93	25.07	10.53	12.77	19.00	5.77	10.17	8.40
Baron	21.67	46.67	4.80	55.70	17.17	41.50	20.70	5.30	27.23	13.17	11.70	20.77	5.77	12.10	9.87
LSD 5%	1.45	1.35	0.38	3.95	2.37	3.26	1.70	0.47	3.28	0.79	1.89	1.77	0.51	1.84	0.77
C.V.	4.17	1.97	5.30	4.87	11.01	5.61	5.98	6.12	8.13	4.40	10.46	5.99	5.76	10.14	5.62

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.
■ Significant difference over two years one location.
■ Significant difference over one year one location.

Table 1B 2002 Morphological Data

Cultivar	Heading Date (days after April 1)	Anthesis Date (days after April 1)	Genetic Color 1-9 scale 9=best	Mature Plant Height (cm)	Plant Width (cm)	Panicle Length (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)	Flag Leaf Internode Length (cm)	Leaf Blade Length (cm)	Leaf Blade Width (mm)	Leaf Blade Height (cm)	Leaf Sheath Length (cm)
Brooklawn	20.00	49.67	5.93	68.30	30.63	43.13	20.73	3.87	38.80	15.00	17.57	21.63	4.33	19.87	12.97
A97-1439	29.33	54.00	6.97	71.90	35.73	49.07	25.97	4.53	40.23	17.10	16.07	29.77	4.57	21.03	13.23
A97-1449	32.33	56.00	7.93	65.93	37.43	43.83	24.27	4.77	38.13	15.97	15.57	27.60	4.87	19.93	13.27
A97-1275	35.67	56.67	6.00	69.40	41.47	44.10	25.53	4.63	42.00	17.50	16.30	27.50	5.37	22.97	13.63
Shamrock	19.33	51.33	5.53	65.73	33.20	40.83	20.57	4.10	38.63	14.07	17.00	22.30	4.53	20.90	12.77
Unique	32.00	59.00	6.00	64.47	34.60	40.70	20.63	4.13	36.50	12.77	16.93	25.57	4.33	17.87	11.50
Baron	28.67	51.67	4.93	62.20	37.87	40.03	20.27	3.70	35.83	14.27	16.20	22.13	4.20	17.60	11.80
LSD 5%	2.29	1.49	0.38	3.76	2.91	2.65	1.22	0.38	2.70	0.85	1.57	1.73	0.42	1.85	0.76
C.V.	6.05	1.99	4.47	4.06	6.18	4.45	3.98	6.50	5.11	4.16	6.91	5.04	6.83	6.67	4.41

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

▒ Significant difference over two years one location.

▓ Significant difference over one year one location.

Table 2A

2001 Laboratory Morphological Data

Cultivar	Lemma Length (mm)	Lemma Width (mm)	Florets per Spikelet	Spikelet Length (mm)	Length of Longest Whorl (mm)	Length of Medium Whorl (mm)	Length of Shortest Whorl (mm)	Distance Between Lower Most Whorls (mm)	Number of Spikelets on the Longest Whorl	Spikelets per Panicle	Length of Panicle From Lower Most Whorl to Tip (mm)	Basal Hair Length (mm)
Brooklawn	3.56	0.75	4.83	5.38	74.83	59.30	47.48	28.69	24.03	222.33	122.87	3.38
A97-1439	3.41	0.66	5.30	5.48	72.90	56.62	42.76	28.95	19.17	197.67	132.80	3.15
A97-1449	3.40	0.72	5.60	5.59	73.65	57.49	43.71	29.38	20.00	197.67	123.85	3.75
A97-1275	3.41	0.66	5.43	5.75	83.48	64.80	50.26	34.22	20.07	228.33	144.33	3.00
Shamrock	3.56	0.74	4.67	5.24	73.22	56.64	44.34	28.59	24.60	221.67	121.13	3.33
Unique	2.72	0.57	4.73	4.44	57.02	43.49	33.32	22.77	15.03	149.67	95.14	2.70
Baron	3.67	0.73	4.83	5.46	63.44	47.13	34.76	24.39	14.67	173.33	117.75	3.30
LSD 5%	0.13	0.03	0.38	0.26	6.27	4.89	3.72	2.16	3.27	29.32	10.01	0.31
C.V.	2.71	3.59	5.50	3.56	6.55	6.70	6.77	5.51	12.03	11.03	6.01	7.04

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

■ Significant difference over two years one location.

■ Significant difference over one year one location.

Table 2B

2002 Laboratory Morphological Data

Cultivar	Lemma Length (mm)	Lemma Width (mm)	Florets per Spikelet	Spikelet Length (mm)	Length of Longest Whorl (mm)	Length of Medium Whorl (mm)	Length of Shortest Whorl (mm)	Distance Between Lower Most Whorls (mm)	Number of Spikelets on the Longest Whorl (mm)	Spikelets per Panicle	Length of Panicle from Lower Most Whorl to Tip (mm)	Basal Hair Length (mm)
Brooklawn	3.43	0.71	3.20	4.52	67.35	54.76	41.25	24.93	23.37	260.67	119.13	3.31
A97-1439	3.32	0.65	3.57	4.71	61.93	48.54	35.97	27.96	17.03	217.33	125.51	2.94
A97-1449	3.36	0.67	3.77	4.68	63.39	48.87	36.34	26.54	18.33	215.67	115.04	3.52
A97-1275	3.38	0.58	3.57	4.78	59.50	45.29	33.90	27.47	12.27	158.67	119.57	2.95
Shamrock	3.54	0.73	3.30	4.71	64.15	52.70	41.58	26.52	23.10	256.33	115.85	3.47
Unique	2.75	0.55	4.10	4.36	59.55	45.76	33.94	23.12	18.07	207.67	108.74	2.80
Baron	3.51	0.64	2.97	4.51	45.55	34.22	24.64	18.35	11.60	157.33	93.14	3.24
LSD 5%	0.11	0.04	0.35	0.19	4.30	3.67	3.10	1.49	2.21	20.42	6.92	0.34
C.V.	2.46	4.72	7.18	2.99	5.23	5.86	6.78	4.23	8.96	7.16	4.32	7.63

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

▒ Significant difference over two years one location.

■ Significant difference over one year one location.

Panicle Type Inflorescence

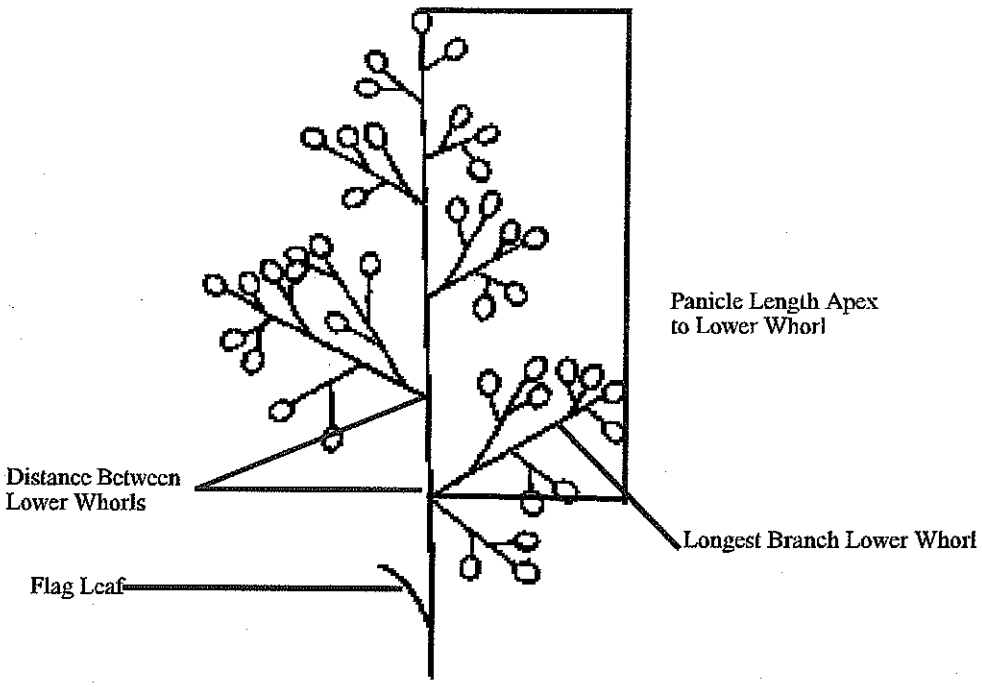

Illustration 1.

Table 3A

2001 Additional Morphological Measurements of the Panicle

Cultivar	Growth Habit % Prostrate	Growth Habit % Semi-Erect	Growth Habit % Erect	Anther Color % Purple	Panicle Orientation % Upright	Panicle Color % Red	Panicle Type % Open	Panicle Collar % Closed	Panicle Branch Lower Whorl % Drooping	Panicle Branch Lower Whorl % Horizontal	Panicle Branch Lower Whorl % Ascending	Shape of Rachis % Straight	Seed Weight mg per 10,000 Seeds
Brooklawn	7	52	42	100	10	0	100	0	0	63	37	100	3720
A97-1439	0	57	43	17	7	2	100	0	0	32	68	100	2180
A97-1449	0	12	88	67	5	0	100	0	0	2	98	100	2610
A97-1275	5	93	2	25	2	100	100	0	0	63	37	100	3840
Shamrock	0	58	42	93	3	3	100	0	0	77	23	100	4350
Unique	2	65	33	87	32	2	100	0	2	96	2	100	3100
Baron	0	95	5	78	7	90	100	0	0	87	13	100	3660

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 3B

2002 Additional Morphological Measurements of the Panicle

Cultivar	Growth Habit % Prostrate	Growth Habit % Semi-Erect	Growth Habit % Erect	Anther Color % Purple	Panicle Orientation % Upright	Panicle Color % Red	Panicle Type % Open	Panicle Collar % Closed	Panicle Branch Lower Whorl % Drooping	Panicle Branch Lower Whorl % Horizontal	Panicle Branch Lower Whorl % Ascending	Shape of Rachis % Straight	Seed Weight mg per 10,000 Seeds
Brooklawn	0	0	100	67	0	22	100	100	0	0	100	100	3700
A97-1439	0	0	100	97	0	13	100	100	0	100	0	100	2180
A97-1449	0	0	100	95	0	25	100	100	0	0	100	100	2700
A97-1275	0	33	67	100	0	100	100	100	0	0	100	100	3810
Shamrock	0	2	98	35	0	23	100	100	0	100	0	100	4290
Unique	0	0	100	98	0	2	100	100	0	100	0	100	3070
Baron	0	2	98	88	0	73	100	100	0	0	100	100	3680

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 4A

2001 Additional Morphological Measurements of the Leaf Blade

Cultivar	Seedling Leaf Sheath Color % Red	Leaf Blade Margin Hairs % Pubescence	Leaf Sheath Collar Hairs % Pubescence	Leaf Sheath Ligule Hairs % Pubescence	Leaf Sheath Margin Hairs % Pubescence	Flag Leaf Position % Ascending	Leaf Sheath Auricle Hairs % Present	Leaf Blade Keel Hairs % Present	Intermediate Nerves on the Lemma % Non-Distinct
Brooklawn	4	100	0	98	20	100	28	67	100
A97-1439	0	97	0	100	52	100	83	12	100
A97-1449	0	93	0	95	27	100	63	72	100
A97-1275	0	98	0	98	72	100	88	63	100
Shamrock	0	98	0	95	53	100	33	37	100
Unique	0	87	0	63	0	100	68	8	100
Baron	0	90	0	100	37	100	53	22	100

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 4B 2002 Additional Morphological Measurements of the Leaf Blade

Cultivar	Seedling Leaf Sheath Color % Red	Leaf Blade Margin Hairs % Pubescence	Leaf Sheath Collar Hairs % Pubescence	Leaf Sheath Ligule Hairs % Pubescence	Leaf Sheath Margin Hairs % Pubescence	Flag Leaf Position % Ascending	Leaf Sheath Auricle Hairs % Present	Leaf Blade Keel Hairs % Present	Intermediate Nerves on the Lemma % Non-Distinct
Brooklawn	4	97	0	85	38	100	38	18	100
A97-1439	0	85	0	93	60	100	42	13	100
A97-1449	0	93	0	80	30	100	27	10	100
A97-1275	0	95	0	98	80	100	80	92	100
Shamrock	0	98	0	90	35	100	20	15	100
Unique	0	80	0	40	0	100	23	5	100
Baron	2	87	0	95	28	100	38	17	100

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 5A

2001 Additional Morphological Measurements of the Plant

Cultivar	Winter Color % Light Green	Leaf Blade Green Color % Light Green	Leaf Blade Green Color % Medium Green	Leaf Blade Green Color % Medium Dark Green	Leaf Blade Green Color % Dark Green	Leaf Blade Bluegreen Color % Not Bluegreen	Leaf Blade Bluegreen Color % Moderately Bluegreen	Leaf Blade Bluegreen Color % Bluegreen	Leaf Blade Luster Lower Side % Without Luster	Leaf Blade Luster Upper Side % Without Luster	Percent Apomictic
Brooklawn	2	12	78	10	8	100	0	0	0	100	~~97~~ 85
A97-1439	0	3	17	78	2	100	0	0	0	100	97
A97-1449	0	2	18	42	38	100	0	0	0	100	98
A97-1275	0	37	63	0	0	100	0	0	0	100	98
Shamrock	2	38	57	5	0	100	0	0	0	100	80
Unique	0	5	48	42	5	100	0	0	0	100	97
Baron	2	22	78	0	0	0	100	0	0	100	95

(BT: 4/9/2008)

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

Table 5B

2002 Additional Morphological Measurements of the Plant

Cultivar	Winter Color % Light Green	Leaf Blade Green Color % Light Green	Leaf Blade Green Color % Medium Green	Leaf Blade Green Color % Medium Dark Green	Leaf Blade Green Color % Dark Green	Leaf Blade Bluegreen Color % Not Bluegreen	Leaf Blade Bluegreen Color % Moderately Bluegreen	Leaf Blade Bluegreen Color % Bluegreen	Leaf Blade Luster Lower Side % Without Luster	Leaf Blade Luster Upper Side % Without Luster	Percent Apomictic
Brooklawn	2	3	0	97	0	100	0	0	0	100	~~97~~ 85
A97-1439	0	0	2	2	96	100	0	0	0	100	97
A97-1449	0	2	0	0	98	100	0	0	0	100	98
A97-1275	0	0	2	98	0	100	0	0	0	100	98
Shamrock	2	2	70	2	26	100	0	0	0	100	80
Unique	0	2	0	96	2	100	0	0	0	100	97
Baron	2	8	92	0	0	0	100	0	0	100	95

(BT: 7/8/2008)

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 6A 2001 Additional Observations

Cultivar	Leaf Sheath Glaucosity % Present	Leaf Sheath Margin Roughness % Rough	Leaf Sheath Surface Roughness % Rough	Leaf Blade Hairs Upper Side % Present	Leaf Blade Hairs Lower Side % Present	Leaf Sheath Surface Hairs % Present	Leaf Sheath Keel % Present	Lemma Hairs on Keel % Present	Lemma Hairs Basal End % Present	Lemma Hairs Margin Nerve % Present	Lemma Hairs Midrib Nerve % Present	Lemma Hairs Intermediate Nerve % Present
Brooklawn	0	0	0	0	0	0	18	100	100	100	100	100
A97-1439	0	0	0	0	0	0	5	100	100	100	100	100
A97-1449	0	0	0	0	0	0	10	100	100	100	100	100
A97-1275	0	0	0	0	0	0	7	100	100	100	100	100
Shamrock	0	0	0	0	0	2	3	100	100	100	100	100
Unique	0	0	0	0	0	0	15	100	100	100	100	100
Baron	0	0	0	0	0	3	5	100	100	100	100	100

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 6B 2002 Additional Observations

Cultivar	Leaf Sheath Glaucosity % Present	Leaf Sheath Margin Roughness % Rough	Leaf Sheath Surface Roughness % Rough	Leaf Blade Hairs Upper Side % Present	Leaf Blade Hairs Lower Side % Present	Leaf Sheath Surface Hairs % Present	Leaf Sheath Keel % Present	Lemma Hairs on Keel % Preseent	Lemma Hairs Basal End % Present	Lemma Haris Margin Nerve % Present	Lemma Hairs Midrib Nerve % Present	Lemma Hairs Intermediate Nerve % Present
Brooklawn	0	0	0	7	0	0	13	100	100	100	100	100
A97-1439	0	0	0	0	0	0	18	100	100	100	100	100
A97-1449	0	0	0	0	0	0	10	100	100	100	100	100
A97-1275	0	0	0	0	0	2	38	100	100	100	100	100
Shamrock	0	0	0	2	0	0	5	100	100	100	100	100
Unique	0	0	0	0	0	0	3	100	100	100	100	100
Baron	0	0	0	0	0	0	18	100	100	100	100	100

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 7 Number of Whorls Bottom Branch

	2001			2002		
Cultivar	Percent Whorl <4 2000	Percent Whorl =5 2000	Percent Whorl >6 2000	Percent Whorl<4 2001	Percent Whorl =5 2001	Percent Whorl >6 2001
Brooklawn	75	22	3	68	32	0
A97-1439	40	60	0	68	32	0
A97-1449	47	53	0	65	35	0
A97-1275	28	68	4	65	33	2
Shamrock	68	28	4	65	35	0
Unique	65	35	0	61	37	2
Baron	5	10	25	24	68	8

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (*7 U.S.C. 2421*). The information is held confidential until the certificate is issued (*7 U.S.C. 2426*).

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Turf Merchants, Inc. (BT: 4/18/08)	A97-944	Brooklawn
4. ADDRESS (*Street and No., or R.F.D. No., City, State, and Zip, and Country*)	**5. TELEPHONE** (*Include area code*)	**6. FAX** (*Include area code*)
33390 Tangent Loop Road Tangent, OR 97389	541 - 926 - 8649	541 - 926 - 4435
	7. PVPO NUMBER #200300077	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.**

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.**

☒ YES ☐ NO

10. Is the applicant the original owner? **If no, please answer one of the following:**

☒ YES ☐ NO

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☒ YES ☐ NO **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☒ YES ☐ NO **If no, give name of country**

11. Additional explanation on ownership *(If needed, use the reverse for extra space)*:

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.